

*Ground frozen.*—Green Springs, Ala., 14th, 27th, 28th; Brookhaven, Miss., 14th, 15th, 27th; Eagle Pass, Tex., 7th.

## PRECIPITATION.

On chart No. III is illustrated the general distribution of precipitation for the month. On the left side is a table showing a comparison of the present month with several previous Februarys, from which it will be seen that there has been a general deficiency, except in the Upper Lake region and Minnesota and on the Pacific coast; at Portland, Or., and Olympia, Wash. Ty., the excess has been nearly equal to the average February rainfall.

*Special Heavy Rains.*—3d and 4th, Wickenburg, Arizona, 2.14 inches. 11th, Smithville, N. C., 2.63; Fayetteville, N. C., 4.25 in. 16th and 17th, Chattanooga, 2.54; Fayetteville, N. C., 16th to 18th, 4.00 in. 22d, Okalooska, La., 2.40 in. 22d and 23d, Vicksburg, 2.15.

*Largest Monthly Rainfalls.*—Olympia, Wash. Ty., 15.59 inches; Portland, Or., 13.22; Fayetteville, N. C., 10.13; Mt. Washington, 7.01; White Plains, N. Y., 6.47; Gainesville, Ga., 6.18; Chattanooga, Tenn., 5.85; Vicksburg, 5.63; Knoxville, 5.61; Cape Hatteras, N. C., 5.09; San Francisco, 4.90; Smithville, N. C., 4.76; Cape Lookout, N. C., 4.68; Charleston, 4.56.

*Smallest Monthly Rainfalls.*—Jacksboro, Tex., none; Ft. Lyon, Col., 0.04 inches; Pilot, Tex., 0.05; Concho, Tex., 0.06; Dodge City, Kan., 0.08; Camp Verde and Florence, Arizona, 0.14; Vail, Ia., 0.15; Pioche, Nev., 0.17; Stockton, Tex., 0.18; Cheyenne and Ft. Hays, Kan., 0.20; Winnemucca, Nev., and Fort Sill, Ind. Ty., 0.21; Santa Fe, N. M., 0.23; Fort Snelling, Min., 0.24; Fort McPherson, Neb., 0.26; Castroville, Tex., 0.29; Visalia, Cal., Ft. Craig, N. M., Morristown, Dak., and Ft. Union, N. M., 0.30; Phoenix, Arizona, 0.34; Graham, Tex., 0.35; Ft. Fred Steele, Wy. Ty., and Yankton, Dak., 0.36; Denver, 0.39; Warrensburg, Mo., 0.13; Macon, Mo., 0.25; Phelps City, Mo., 0.22; Grand City, Mo., 0.20; and northwestern portion of Iowa generally less than 0.50.

*Drought.*—Uvalde, Tex., 26th—Sheep owners report this month the most severe known, many sheep and goats have died from cold and starvation; vegetation is backward and nearly all springs are dry.

*Hail.*—Ft. Fred. Steele, Wy. Ty., 15th; Morristown, Dak., 28th; New Bedford, Mass., 26th; Freehold, N. J., 25th, 26th; Flushing and Cape Vincent, N. Y., 26th; Wilmington, N. C., 8th, 18th; North Lewisburg, Ohio, 22d, 28th; Woodstock, Vt., 26th; Helvetia, W. Va., 11th; Boise City, Idaho, 14th; Ft. Sill, Ind. Ty., 14th; San Antonio, Tex., 23d; Castroville, Tex., 22d; Fredericksburg, Tex., 1st; Graham, Tex., 16th; Shreveport, La., 25th; Dubuque, Iowa, 24th; Logansport, Ind., 25th; Little Egg Harbor, N. J., 27th.

*Rainy Days.*—The number of days on which rain or snow has fallen varies as follows: New England, 13 to 17; Middle States, 7 to 16; South Carolina States, 9 to 13; Gulf States, 2 to 12; Ohio valley and Tennessee, 10 to 20; Lower Lake region, 15 to 23; Upper Lake region, 14 to 18; Upper Mississippi valley, 12 to 15; Lower Missouri valley, 4 to 11; Eastern Slope, 0 to 13; Rocky Mountains, 2 to 11; Western Plateau, 1 to 14; Pacific coast, 6 to 11.

*Cloudy days.*—For New England the number varies from 9 to 18; Middle States, 7 to 14; South Atlantic States, 7 to 13; Gulf States, 2 to 12; Ohio valley and Tennessee, 8 to 18; Lower Lake region, 13 to 21; Upper Lake region 9 to 17; Upper Mississippi valley, 8 to 13; Lower Missouri valley, 9 to 11; Eastern Slope, 5 to 14; Rocky Mountains, 2 to 10; Western Plateau, 1 to 17; Pacific coast, 4 to 11.

*Snow.*—The precipitation in the northern sections occurred generally as snow. On the Pacific coast and in the South Atlantic States and Texas it occurred as follows: in *British Columbia*, on the 7th, 8th, (10th, 11th, "heaviest storm since 1861–2, and came according to cloud movement, from the SW; at Victoria the snow was four to five feet deep.") *California*, on the Coast Range mountains, 19th; on Sierra Nevada's, during the entire month; *Texas*, 1st, 2d, 14th; *North Carolina*, 1st, 8th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 20th; *Georgia*, 14th, 16th.

*Depth of Snow on Ground at end of Month.*—It varied in the different sections as follows: *New England*, trace to 38 inches, and 48 inches on Mount Washington. *Middle States*, 0 to  $\frac{1}{2}$  inch along the coast to 36 inches in the interior. *Ohio*, trace to 18 inches. *Lower Lakes*, 0 to 18 inches. *Upper Lakes*, 2 $\frac{1}{2}$  to 30 inches. *Upper Mississippi Valley*, trace to 25 inches. *Indiana*, 0 to 10 inches. *Red River of the North Valley*, 4 $\frac{1}{2}$  to 8 inches. *Missouri Valley*, 0 to 6 inches. *Rocky Mountains*, Cheyenne, Virginia City and Pike's Peak, 3 inches.

## RELATIVE HUMIDITY.

The average percentage of relative humidity for the month ranges as follows: New England, 59 to 78; Middle States, 58 to 79; South Atlantic States, 57 to 78; East Gulf States, 69 to 76; West Gulf States, 56 to 77; Lower Lakes, 71 to 82; Upper Lakes, 70 to 78; Ohio valley and Tennessee, 59 to 73; Upper Mississippi valley, 66 to 74; Lower Missouri valley, 64 to 69; Red River of the North valley, 84; to 92; Eastern Slope, 50 to 91; Western Plateau, 48 to 67; California, 69 to 87. *High stations* report the following, not corrected for altitude: Mt. Washington, 85; Pike's Peak, 51; Santa Fe, 50; Cheyenne, 52; Denver, 57.

## WINDS.

The prevailing winds at the Signal Service stations are shown by arrows on chart No. II, from an examination of which it will be seen that over the eastern section of the country they have been from northerly to westerly except where influenced by local causes; of which marked cases are seen in the NE. wind along